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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/652,495	10/652,495 09/02/2003		Masayuki Kumakura	116882	116882 2708		
25944	7590	03/01/2006		EXAM	EXAMINER		
OLIFF & E		E, PLC	PAREKI	PAREKH, NITIN			
ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER		
	,			2811			

DATE MAILED: 03/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/652,495	KUMAKURA, MASAYUKI	m			
	Office Action Summary	Examiner	Art Unit				
		Nitin Parekh	2811				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAY IN THE MAILING DAY IN THE MONTHS from the mailing date of this communication. In the period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status				•			
1)⊠	Responsive to communication(s) filed on 09 Fe	ebruary 2006.					
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposit	ion of Claims			•			
5)□ 6)⊠ 7)□	Claim(s) 10-12 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 10-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Applicat	ion Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 20 May 2005 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	☑ accepted or b) ☐ objected to l drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority (under 35 U.S.C. § 119						
12)⊠ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage	đ			
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D. 5) Notice of Informal F 6) Other:					

Application/Control Number: 10/652,495

Art Unit: 2811

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (APA) in view of Matsuura et al. (US Pat. 2001/0015484).

Regarding claims 10-12, APA discloses a hard disk device comprising an insulating sheet (110 and 113 respectively in Fig. 5), the insulating sheet further comprising:

- an insulating resin film (123 in Fig. 5) having insulating attributes formed from polyethylene terephthalate/PET (see prior art: comparative example 2 in Table 2, page 8)
- an adhesive layer (122 in Fig. 5), the adhesive layer being exposed at an edge of the insulating sheet (see Fig. 5)
- a buffer layer (121 in Fig. 5) having buffering attributes, the buffer layer being formed of an urethane foam (see prior art: comparative example 2 in Table 2, page 8), wherein the buffer layer and the resin film are attached to surfaces of the adhesive layer

Application/Control Number: 10/652,495

Art Unit: 2811

(Fig. 5 and 6; specification pp. 1, 2, 8 and 9; Table 2).

The APA fails to teach the adhesive layer being formed of polyester resin and having adhesiveness exhibiting temperature being higher than normal ambient temperature.

Page 3

Matsuura et al. teach using a variety of polyester/polyether based heat resistant adhesive/resin compositions including those having such resin as a main component or a mixture of components without a silicon component (section 0026; 0192; Col. 2-13) to provide improved adhesion/bonding between a variety of substrates/layers (sections 0229 and 0230) where the adhesion/bonding is performed under compression and heat treatment and the temperature of the heat treatment is higher than normal ambient temperature. Such adhesive layer has adhesiveness exhibiting temperature being higher than normal ambient temperature (see sections 0206-0212).

It would have been obvious to a person of ordinary skill in the art at the time invention was made to incorporate the adhesive layer having adhesiveness exhibiting temperature being higher than normal ambient temperature as taught by Matsuura et al. so that the adhesion/bonding, crack resistance and reliability can be improved and moisture absorption can be reduced in the APA's device.

Response to Arguments

3. Applicant's arguments filed on 02-09-06 have been fully considered but they are not persuasive.

A. Applicant contends that Matsuura et al. does not teach or suggest an resin film having insulating attributes and a buffer layer.

However, as explained above, the APA discloses the insulating resin film (123 in Fig. 5) being formed from polyethylene terephthalate/PET (see prior art: comparative example 2 in Table 2, page 8) and the buffer layer (121 in Fig. 5) being formed of an urethane foam (see prior art: comparative example 2 in Table 2, page 8). Matsuura et al. is applied to the APA to provide the adhesive having the desired properties as claimed.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh whose telephone number is 571-272-1663. The examiner can normally be reached on 09:00AM-05:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 57:1-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAN or Public PAG. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAG system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

NP

NITIN PAREKH

Netrifareth

02-21-06

PRIMARY EXAMINER

TECHNOLOGY CENTER 2800